



# भारत का राजपत्र The Gazette of India

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No. 22]

NEW DELHI, SATURDAY, JUNE 2, 1973 (JYAISTHA 12, 1895)

इस भाग में जिस पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

## भाग III—खण्ड 2

## PART III—SECTION 2

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

Notifications and Notices issued by the Patent Office relating to Patents and Designs

### THE PATENT OFFICE

Patents and Designs

Calcutta, the 2nd June, 1973

The dates shown in crescent brackets are the dates claimed under Section 135 of the Act.

#### Application for Patents Filed at the Head Office

14th May 1973

- 1123/Cal/73. Union Carbide India Limited. Improvements in or relating to process for the manufacture of sorbic acid.
- 1124/Cal/73. Sterling Drug Inc. Preparation of bisbiguanides. [Divisional date 6th April, 1965].
- 1125/Cal/73. Union Carbide Corporation. Two step porous boiling surface formation.
- 1126/Cal/73. Pfizer Corporation. Compositions for the treatment of plant diseases. (17th May 1972).
- 1127/Cal/73. Rockwell International Corporation. Weft yarn control device.
- 1128/Cal/73. The Lucas Electrical Company Limited. Battery charging systems for use in road vehicles. (20th May 1972).
- 1129/Cal/73. Crompton & Knowles Corporation. Improvements for a pneumatic loom.
- 1130/Cal/73. Gruppo Lepetit S.p.A. Diphenylmethane derivatives.
- 1131/Cal/73. Gruppo Lepetit S.p.A. New 2, 4-benzoxazepine derivatives.

15th May 1973

- 1132/Cal/73. E. H. Green and E. H. Green, Jr. Safety overcap for dispensing containers.
- 1133/Cal/73. M. Tsudo. Slow descender.
- 1134/Cal/73. Gruppo Lepetit S.p.A. 3-formylrifamycin azines.
- 1135/Cal/73. Snam Progetti S.p.A. Process for preparing a polyimine of aluminium. [Divisional date 15th February 1971].
- 1136/Cal/73. Environmental Science Corporation. Method and composition for the control of fertility.
- 1137/Cal/73. N. V. Philips' Gloeilampenfabrieken. Cartridge for an injection syringe.
- 1138/Cal/73. N. V. Philips' Gloeilampenfabrieken. System for the transmission of signals by pulse code modulation.
- 1139/Cal/73. Eli Lilly and Company. Process for preparing 1-substituted-2-(1, 1-difluoroalkyl)-1H imidazo (4, 5-b) pyridine compounds. [Divisional date 17th March 1971].
- 1140/Cal/73. Unico Inc. Method and apparatus for building construction. (14th August 1972).
- 1141/Cal/73. Essex International, Inc. Terminating and splicing electrical conductors.
- 1142/Cal/73. J. R. Lovett. Shrimp Separating method and apparatus.
- 1143/Cal/73. Sukumar Chandra Sirkar and Sourendra Mohan Sirkar. Manufacturing simple direct-reading densitometer suitable for quick measurement of densities of lines in spectrograms.
- 1144/Cal/73. Ethicon, Inc. Control release suture.

## 18th May 1973

- 1145/Cal/73. N. D. Matange. Improvements in or relating to electro-mechanical clocks.
- 1146/Cal/73. Gur Charan Saini. Coin-operated vending machine.
- 1147/Cal/73. Fosco International Limited. Grain refining compositions. (17th May 1972).
- 1148/Cal/73. Nestle's Products Limited. Fish protein isolate. (22nd May 1972).
- 1149/Cal/73. Nestle's Products Limited. Soluble protein. (22nd May 1972).
- 1150/Cal/73. Nestle's Products Limited. Beverage product. (22nd May 1972).
- 1151/Cal/73. Nestle's Products Limited. Protein composition. (22nd May 1972).
- 1152/Cal/73. Nissei Plastics Industrial Co., Ltd. Injection nozzle for pinpoint gate.
- 1153/Cal/73. Rheinstahl Ag. A reactor for catalytic gas-phase oxidation.
- 1154/Cal/73. Veb Kombinat Medizin-Und Labortechnik Leipzig. A coupling device for dental hand or angle pieces.
- 1155/Cal/73. Varta Batterie Ag. Antimony lead alloys. (29th August 1972).
- 1156/Cal/73. Varta Batterie Ag. Unformed electrode plate.
- 1157/Cal/73. L. J. Derr. Ovulation monitor.
- 1158/Cal/73. Societe Fives Lillie-Cail. Sealing device for rotary, tubular oven, drier or cooler, or similar apparatus. [Addition to No. 131122].
- 1159/Cal/73. John Heathcoat & Company Limited. Process and apparatus for the production of bulked and crimped yarn. (17th May 1972).
- 1160/Cal/73. Pfizer Corporation. Citric acid production. (19th May 1972).
- 1161/Cal/73. J. M. Gomes and K. Uchida. Process for smelting ilmenite to produce pig iron and titania-containing slag.
- 1162/Cal/73. R. L. Weber. Weighing dispenser.
- 1163/Cal/73. Interep Associes S. A. Hand grenade detector.
- 1164/Cal/73. Societe Nationale Des Petroles D'Aquitaine. A method of exploring a medium and its applications in seismic exploration.
- 1165/Cal/73. Ishikawajima-Hukogyo Kufushiki Kaisha. Apparatus for burning materials of cement and the like.
- 1166/Cal/73. Siemens Aktiengesellschaft. Drive for an electrical switch.
- 1167/Cal/73. Ceskoslovenska Akademie Ved. Ionization detector for chromatographic analysis.
- 1168/Cal/73. Elitex—Zavody textilniho strojirenstvi generalni Reditelstvi. Device for continuous electrostatic flocking of web materials.
- 1169/Cal/73. Ruti-Te Strake B. V. A device for detecting a textile thread to be carried through a channel.
- 1170/Cal/73. Jitender Gupta. Bored injector compacted piles.
- 1171/Cal/73. V. N. Kaushal. Preventing those railway accidents which happen due to negligence or failure on the part of the driver of a train.

## Application for Patents Filed at Patent Office (Bombay Branch)

## 1st May 1973

- 156/Bom/73. R. R. Pardasani. Improvement in or relating to dead front fuse units. [Addition to No. 123946].

## 3rd May 1973

- 157/Bom/73. National Dairy Development Board. Bulk vending system for consumable liquids.
- 158/Bom/73. N. V. Sheth. Improvements in skewer assembly for barber colman spooler.
- 159/Bom/73. R. R. Pardasani. Improvements in or relating to cut-out or fuse box or like.
- 160/Bom/73. Ciba of India Limited. Process for the manufacture of condensed pyrrole mercapto compounds.
- 161/Bom/73. Ciba of India Limited. Process for the preparation of azacycloalkane compounds.

## 4th May 1973

- 162/Bom/73. Ciba of India Limited. Process for manufacture of new heterocyclic compounds.
- 163/Bom/73. Dr. R. Shukla. Improvements in or relating to appliances for auscultatory procedures of medicine.
- 164/Bom/73. R. S. Hemmady. Improvements in or relating to cross supports for continuous beams and the like carrying or vibratory or other dynamic loads and method of maintenance of such cross supports.
- 165/Bom/73. Kantilal Chunilal & Sons. Improved valve.

## 5th May 1973

- 166/Bom/73. Karamchand Premchand Private Limited. Process for the preparation of quinazolinone derivatives. [Divisional date 15th January 1970].
- 167/Bom/73. Karamchand Premchand Private Limited. Process for the preparation of quinazolinone derivatives. [Divisional date 8th May 1970].

## 9th May 1973

- 168/Bom/73. (1) S. L. Munver, (2) N. R. Shah, and (3) J. D. Vikamsey. New type of reflection feeler head for optical weft feeler for use on looms.

## Application for Patents Filed at Patent Office (Madras Branch)

## 5th May 1973

- 66/Mas/73. The Gurdit Institute Private Limited. Improvements in or relating to the manufacture of chip board, laminated board, particle board and the like. [Divisional date 12th January 1972].

## 9th May 1973

- 67/Mas/73. S. Puttaraju. Improved pinch valve.

## 10th May 1973

- 68/Mas/73. A. Koujalgi. Improvements in or relating to sliding doors, partitions and like structural members.
- 69/Mas/73. M. V. S. Satvanarayana. Self contained burglar alarm device.

## ALTERATION OF DATE

131801. The claim to priority date 20th June 1970 has been abandoned and the application dated as of 19th June 1971, the date of filing in India.

135370 (121/Cal/73). Ante-dated to 26th April 1971.

135371 (241/72). Ante-dated to 25th September 1970.

## COMPLETE SPECIFICATIONS ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2 (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 32-F-2(b), 55-E-4 & 60-X-2(d) 108442

PROCESS FOR PREPARING 1, 2, 3, 4-TETRA-HYDRO-7-HALO-6-SULFAMYL-4-QUINAZOLINONES AND THE COMPOUNDS PREPARED THEREBY.

WALLACE & TIERNAN INC., 91 S. HARRISON STREET EAST ORANGE, NEW JERSEY.

Application No. 108442 filed December 14, 1966.

## 6 Claims.

A process for preparing a compound of the formula I and therapeutically effective salts thereof, in which X is halogen or trifluoromethyl, Y is hydrogen or lower alkyl,  $R_1$  is hydrogen  $R_2$  is hydrogen, lower alkyl, thio lower alkyl, halogen substituted alkyl, aralkyl, or substituted aralkyl,  $R_3$  is hydrogen, lower alkyl, hydroxy, lower alkoxy,  $NH_2$ , sulfamyl, halogen, or trifluoromethyl,  $R_4$  and  $R_5$  are any of the members of  $R_3$ , and n is an integer from 0—4; which comprises reducing by known methods a compound of the formula II wherein  $R_2$ ,  $R_3$ ,  $R_4$ ,  $R_5$ , X and Y are as defined above, the lower alkyl referred to above containing from 1 to 6 carbon atoms.

CLASS 32-F-1, 32-F-2(b), 55-E-4, 60-X-2(d), 60-X-2(b) 112202

PROCESS FOR THE PRODUCTION OF 1, 3-DISUBSTITUTED PYRROLIDINES.

A. H. ROBINS COMPANY, INCORPORATED, OF 1407 CUMMINGS DRIVE, RICHMOND, VIRGINIA 23220, UNITED STATES OF AMERICA.

Application No. 112202 filed September 1, 1967.

## 7 Claims.

A process for the production of a compound of the formula (I) shown in the accompanying drawings wherein R is a member selected from the group consisting of

hydrogen, lower alkyl, lower alkoxy, trifluoromethyl and halogen having an atomic weight less than 80,  $R^1$  is a member selected from the group consisting of methyl and hydrogen, a maximum of one  $R^1$  being other than hydrogen, n is an integer from 2 to 4 inclusive, A is a member selected from the group consisting of oxygen, nitrogen and a single bond, and Z is a member selected from the group consisting of radicals of the formula (a) shown in the drawings and the radicals of the formulae (b) to (e) shown in the drawings when A is a single bond, wherein : Y is a member selected from the group consisting of carbonyl and methylene, and  $R^2$  and  $R^3$  are each a member selected from the group consisting of hydrogen, lower alkyl, phenyllower alkyl, cycloalkyl, phenyl and substituted phenyl,  $R^4$  is a member selected from the group consisting of lower alkyl, lower alkoxy, trifluoromethyl, halogen having an atomic weight less than 80 and di-lower-alkyl amino,  $R^5$  and  $R^6$  are each a member selected from the group consisting of hydrogen, lower alkyl, and phenyl, and acid addition salts thereof, which comprises mixing and reacting together a 2-(w-haloalkyl) 2-substituted phenyl-1, 3-dioxolane of the formula (IV) shown in the drawings, wherein R has the value assigned above, with a novel 3-substituted pyrrolidine of the formula (III) shown in the drawings, wherein  $R^1$ , A and Z have the values assigned above, and subjecting the product thereby obtained to mild acid hydrolysis by methods known per se to regenerate the free ketone and converting the obtained free base into acid addition salts thereof by methods known per se.

CLASS 32-F-1, 32-F-2(b), 60-X-2(d) 115072.

## PREPARATION OF EN-AMINE DERIVATIVES

RICHARDSON-MERRELL S.p.A., OF 24, VIA FRA GIOVANNI ANGELICO, FIRENZE, ITALY.

Application No. 115072 filed March 20, 1968.

## 11 Claims.

A method of preparing an enamine of the formula I of the accompanying drawings or a salt thereof where n is 2 to 3,  $R_1$  is hydrogen, alkyl, allyl, propargyl, cyclopropylmethyl, R-substituted or unsubstituted-aryl, aralkyl, picolyl, carbalkoxy, unsubstituted or N-alkyl-1, N, N-dialkyl-, or N-aryl-substituted-carboxamide, -carboxamidalkyl-, or -thiocarboxamide, cyanoalkyl, arylalkyl, or dialkylaminoalkyl, X represents a group of the formula B, C, D, E, F, G and R is hydrogen, halogen, lower alkyl of 1 to 4 carbon atoms, alkoxy, amino, nitro, monoalkylamino, dialkylamino, trifluoromethyl, sulfonyl or sulfonamide and  $R_2$  is hydrogen or alkyl, acyl, aryl, or aralkyl, except that when X is a group of the formula B  $R_1$  is not hydrogen, alkyl, allyl, propargyl, phenalkyl, carbalkoxy or aryl, which comprises reacting a piperazine or homopiperazine of the Formula II with a compound of the Formula IV in the presence of a dehydrating agent, and, if desired, reacting a compound obtained when  $R_1$  is hydrogen with an alkylating, arylating or acylating agent provided the radical  $R_1$  is other than hydrogen, and if desired, converting a free base obtained to an acid addition salt or quaternary ammonium salt.

CLASS 32-F-1-2(b), 60-X-2(d). 118433

PROCESS FOR PREPARING 2-AMINO-6, 7-DISUBSTITUTED-4H-1, 3-BENZOTHAZINE-4-ONES

PFIZER INC., FORMERLY KNOWN AS CHAS. PFIZER & CO., INC., OF 235 EAST 42ND STREET, NEW YORK 17, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Application No. 118433 filed November 5, 1968.

## 7 Claims

A process for preparing compounds of the formula I of the accompanying drawings wherein X and Y are each selected from the group consisting of hydroxyl,

alkoxyl containing up to 4 carbon atoms, and X and Y taken together, alkylendioxy containing up to 4 carbon atoms;  $R_1$  and  $R_2$  are each selected from the group consisting of hydrogen, alkyl containing up to 6 carbon atoms, hydroxyethyl, aryl containing up to 10 carbon atoms having up to 2 substituents each selected from the group consisting of alkyl containing up to 3 carbon atoms, alkoxyl containing up to 2 carbon atoms, halogen and amino, and  $R_1$  and  $R_2$ , when taken together, form a heterocycle selected from the group consisting of piperidino, morpholino, thiomorpholino, piperazino, N-carbalkoxy piperazino wherein said carbalkoxy moiety contains up to 4 carbon atoms, N-alkylpiperazino wherein said alkyl moiety contains up to 4 carbon atoms, N-alkylpiperazino wherein said alkyl moiety contains up to 4 carbon atoms, N-alkenylpiperazino wherein said alkenyl moiety contains up to 4 carbon atoms, and N-phenylpiperazino wherein said phenyl moiety has up to 2 substituents each selected from the group consisting of alkyl containing up to 3 carbon atoms, alkoxyl containing up to 2 carbon atoms, halogen and amino; Or  $R_1$  is  $\text{CH}_2\text{CH}_2\text{NR}_5$  and  $R_2$  is  $R_3$  wherein  $R_3$ ,  $R_4$  and  $R_5$  are each hydrogen or alkyl containing up to 6 carbon atoms; and the pharmaceutically acceptable salts thereof, characterized by condensing an ester of a 3, 4-disubstituted-6-mercaptobenzoic acid of the formula III of the drawings with a cyanamide of the formula;  $\text{NC}-\text{Y}$  wherein Y is a group of formula VI of the drawings wherein X, Y,  $R_1$  or  $R_2$  are as defined above, and if desired, forming the pharmaceutically acceptable salts thereof.

CLASS 32-F-2(b), 60-X-2(d). 128598

PROCESS FOR PREPARING ALKYL 7-O-ALKYL-1-THIO- $\alpha$ -LINCOSAMINIDES.

THE UPJOHN COMPANY, OF 301 HENRIETTA STREET KALAMAZOO, MICHIGAN, UNITED STATES OF AMERICA.

Application No. 128598 filed September 25, 1970.

#### 1 Claim.

A process for preparing compounds of the formula I shown in the accompanying drawings, wherein alkyl is an alkyl of not more than 4 carbon atoms and R is methyl which process comprises reacting a compound of the formula II shown in the drawings, wherein Ac is a protective carboxacyl group with bromine in an inert nonaqueous solvent, treating the resulting compound of formula III shown in the drawings, wherein Ac is as defined above, with thiourea in a tertiary amide dipolar aprotic solvent to form the isothiuronium salt of formula IV shown in the drawings, wherein Ac is as defined above, subjecting the isothiuronium salt of formula IV thus formed to mild alkaline hydrolysis to form the thiose of formula V in the drawings, wherein Ac is as defined above alkylating by a method as herein described the thiose of formula V thus formed to form a thioglycoside of the formula VI shown in the drawings, wherein Ac and alkyl are as defined above, and removing the protective groups As, by a known method as herein described.

CLASS 158-C. 129905.

#### UNIVERSAL COUPLER

TEJ NARAYAN TANDON, SUNDAR LAL SANEJA AND CHANDRA BHAN SHARMA, ALL OF RESEARCH, DESIGNS & STANDARDS ORGANISATION, MINISTRY OF RAILWAYS, LUCKNOW, INDIA.

Application No. 129905 filed January 11, 1971.

#### 7 Claims.

A universal coupler comprising a shank and coupler head, said coupler capable of being coupled to a cooperating coupler, said coupler head having a buffer face

provided with first and second coupling members projecting therefrom, a first opening provided above said second coupling members and adapted to receive the first coupling member of a cooperating coupler, a second opening provided below said first coupling member and adapted to receive the second coupling member of the cooperating coupler, locking means provided with the first coupling member and such that to lock within said second opening the second coupling member of a cooperating coupler, and an unlocking means adapted to disengage or lockset the coupling between the first coupling member and the second coupling members of a cooperating coupler, said unlocking means including a lock lifter provided with said first coupling member and lock pusher provided or housed within said second coupling member.

CLASS 167-E.

130113.

#### A RIDDLE SCREEN BODY.

ZAKLAND BADAN I DOSWIADCZEN TECHNOLOGII BUDOWY MASZYN, OF UL. ZWIRKI I WIGURY 2, MIKOLOW, POLAND.

Application No. 130113 filed January 30, 1971.

#### 13 Claims.

A riddle screen body comprising one or more rectangular screening surfaces, at least one longitudinal inner plate running parallel to the flow of material, resiliently supported and symmetrically located, and cantilever beams connected to the said inner plate and running transversely of said longitudinal inner plate, said cantilever beams extending continuously under the screening surface and supported thereby, and a pair of side plates extending longitudinally of the screening surface for confining material thereon.

CLASS 55-A & 55-D-2, 32F.b, 32F<sub>1</sub>.

130158.

PROCESS FOR THE PREPARATION OF PHOSPHORYLATED 1, 2, 4-OXADIAZOLE DERIVATIVES.

SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ N. V., OF 30, CAREL VAN BYLANDT-LAAN, THE HAGUE, THE NETHERLANDS.

Application No. 130158 filed February 3, 1971.

Convention date February 5, 1970 (5587/70) U.K.  
Addition to No. 120555.

#### 11 Claims.

Process for the preparation of phosphorylated 1, 2, 4-oxadiazole derivatives of the general formula I of the accompanying drawings, wherein  $R_1$ ,  $R_2$  and  $R_3$  each represents an alkyl group;  $R_4$  represents an alkyl or aryl group, and X represents an oxygen or sulphur atom, which comprises reacting a 1, 2, 4-oxadiazole derivative of formula II of the drawings, wherein Y represents a halogen atom or an arylsulphonyloxy group, and  $R_3$  and  $R_4$  have meanings given above, with a salt of a phosphorus ester of formula III of the drawings, wherein  $R_1$ ,  $R_2$  and X have the meanings given above.

CLASS 32-F-2(a), 70-C<sub>6</sub>, 70-C<sub>7</sub>.

130295.

AN ELECTROCHEMICAL PROCESS FOR THE PRODUCTION OF PARA-AMINO-DIMETHYL ANILINE FROM PARA-NITROSO DIMETHYL ANILINE FOR MAKING METHYLENE BLUE.

COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

Application No. 130295 filed February 17, 1971.

#### 6 Claims—No drawings.

A process for the preparation of paminodimethyl aniline by electrolytic reduction of p-nitrosodimethylaniline characterised in that the electrolytic reduction is carried out using a copper cathode, either stationary or rotat-

ing and an anode as herein described which is separated by means of a porous diaphragm.

CLASS 116-B & 90-I. 130350.

APPARATUS FOR FEEDING BATCH MATERIAL FOR GLASS MANUFACTURE.

PILKINGTON BROTHERS LIMITED, OF 201—211 MARTINS BANK BUILDING, WATER STREET, LIVERPOOL 2, LANCASHIRE, ENGLAND.

Application No. 130350 filed February 24, 1971.

Convention date February 25, 1970 (9141/70) U.K.

#### 10 Claims.

Apparatus for feeding batch material for glass manufacture to the inlet of a glass melting furnace, comprising an elongated feed element through which batch material can be fed, means for mounting said feed element for angular motion about an axis transverse to the length of the element, means for delivering batch material into the feed element for discharge from the discharge end thereof, and driving means to effect and control swinging motion of the feed element about the axis back and forth across a desired arc so that said discharge end is moved back and forth at a controlled rate across a predetermined delivery area to effect a controlled distribution of the batch material across said delivery area.

CLASS 32-F-1, 60-X-2d. 130434

PROCESS FOR THE PREPARATION OF ANALOGUES OF LAPACHOL.

PFIZER INC., FORMERLY KNOWN AS CHAS. PFIZER & CO., INC. OF 235 EAST 42ND STREET, NEW YORK 17, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Application No. 130434 filed March 2, 1971.

Convention date May 5, 1970 (21669/70) U.K.

#### 4 Claims.

A process for preparing compounds of the formulae shown in figure 1 of the accompanying drawings, wherein R is halogen, trifluoromethyl or where R and R are taken together form carbocyclic rings containing 3 to 6 carbon atoms characterized by reacting in the presence of a suitable solvent the metal derivative of 2-hydroxy-1, 4-naphthoquinone of the formula of figure 4, with an alkylating agent of the formula of 5 or 6, wherein R is as defined above and X is Cl, Br or I and wherein when X is Cl, or Br or a metal iodide may be present.

CLASS 157-D-3. 130582.

DEVICE FOR GRINDING THE LONG UNSULATION WAVES OF RAILWAY RAILS

SPENO INTERNATIONAL S. A., OF 22—24 PARC CHATEAU BANQUET, GENEVA, SWITZERLAND AND FRANK SPENO RAILROAD BALLAST CLEANING CO., INC., OF ITHACA, NEW YORK, UNITED STATES OF AMERICA.

Application No. 130582 filed March 16, 1971.

#### 11 Claims.

A device for rectifying long undulations of railway rails, comprising an array of grinding wheels mounted on an elongate rigid frame of greater length than that of the longest undulation to be rectified, the frame being oriented in use in the direction of a respective rail and driven along the rail supported by a suspension so constructed and arranged that the resultant of the driving force on the frame and of the force applying the grinding wheels against the rail passes through or close to the centre of the areas of contact of the grinding wheels with the rail.

CLASS 182-B, 83-A-1. 130649.

A PROCESS FOR PRODUCING A NEW THERMOGELABLE POLYSACCHARIDE.

TAKEDA CHEMICAL INDUSTRIES, LTD., OF 27 DOSHOMACHI, 2-CHOME, HIGASHI-KU, OSAKA, JAPAN.

Application No. 130649 filed March 20, 1971.

#### 8 Claims—No Drawings.

A process for producing a novel thermo-gelable  $\beta$ -1, 2-glucan-type polysaccharide PS which comprises cultivating aerobically a PS-producing micro-organism such as herein described in an aqueous culture medium containing assimilable carbon- and nitrogen-sources with other nutrients required by the micro-organism, until the PS is substantially accumulated in the culture broth, and recovering the accumulated PS therefrom.

CLASS 128-G. 130768.

CLINICAL SPECIMEN COLLECTING IMPLEMENT.

MEDICAL TESTING SYSTEMS, INC., AT 9601 WILSHIRE BLVD. BEVERLY HILLS, CALIFORNIA, U.S.A.

Application No. 13768 filed March 29, 1971.

#### 4 Claims.

An elongate substantially rigid implement for collecting diagnostic material in situ from body cavities comprising a handle means for manually rotating said implement about a rotation axis through the longitudinal center of said elongate implement, a blade means secured to said handle means, said blade means including at least one slanted edge relative to said rotation axis and adapted to describe a conical path during said rotation, said blade means further including a recessed groove adjoining said edge and adapted to receive said diagnostic material collected by said edge from said situs.

CLASS 32-F-3-C, 123. 130800.

PROCESS FOR THE PRODUCTION OF UREA.

SNAM PROGETTI S.p.A., OF CORSO VENEZIA, 16, MILAN, ITALY.

Application No. 130800 filed March 30, 1971.

#### 6 Claims.

Process for the urea production from  $\text{NH}_3$  and  $\text{CO}_2$  comprising: reacting carbon dioxide and ammonia in the synthesis reactor at high pressure in the range from 120 to 150 atmosphere absolute and temperature in the range of 160° to 180°C, the ammonia being in an excess with respect to the stoichiometrically required value; sending the products coming out from the reactor and consisting essentially of urea, water, carbamate and ammonium treatment the liquid stream coming out from the same or substantially at the same synthesis pressure and at high temperature in the range of 180° to 240°C, and wherein they meet counter currently vaporized ammonia and/or other substance as  $\text{CO}_2$ ,  $\text{O}_2$  or air and wherein, through the fluid which is an indirect exchanger, heat is transferred to said liquid stream, sending to the subsequent treatments the liquids stream coming out from the bottom of the decomposer and consisting essentially of urea, water and dissolved ammonia, sending the gaseous stream coming out from the top of the decomposer and consisting essentially of  $\text{NH}_3$ ,  $\text{CO}_2$  and water to a condenser operating at the same synthesis pressure or substantially at the synthesis pressure and at high temperature in the range of 160° to 240°C such gaseous stream by condensing produces steam to be used in other parts of the plant, recycling the liquid stream, coming out from the condenser to the reactor by gravity or through ejector which uses as motor fluid the ammonia to be sent to the synthesis or through any other means,

introducing into the cycle and to the bottom of the decomposer or into the condenser or at any other point between the decomposer and the condenser, oxygen and/or air or other mixtures containing oxygen or substances which in the operative conditions develop oxygen.

CLASS 37.

131015.

#### IMPROVEMENTS IN CENTRIFUGE ROTORS.

MESSERSCHMITT-BOLKOW-BLOHM GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, OTTOBRUNN BEI MÜNCHEN, 8 MÜNCHEN 80, FEDERAL REPUBLIC OF GERMANY.

Application No. 131015 filed April 17, 1971.

Convention dated February 16, 1971 (4746/71) U.K.

#### 5 Claims.

Rotor which is operated at high speed of rotation and in which one or more covers are in each case connected with the thin-walled cylindrical casing by a cylindrical ring having the same wall-thickness as the casing, characterized by the fact that the material of the ring (3) and that of the casing (1) under the effect of centrifugal forces, show the same expansion properties and that the surfaces provided for their connection are in each case situated outside the range of action of the bending stresses occurring at the transition point between the cover (2) and the ring (3).

CLASS 32-B, 36-F

131022

#### PROCESS FOR HYDROCARBON PURIFICATION BY SELECTIVE HYDROGENATION

COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-1, INDIA

Application No. 131022 filed April 19, 1971.

#### 10 Claims—No drawings

Process for purification, by selective hydrogenation, of a hydrocarbon mixture, which may contain from 3 to 10 carbon atoms per molecule, which mixture contains highly unsaturated compounds as impurities, wherein this hydrocarbon mixture is passed through a first stage reaction zone, in the liquid phase, with a hydrogenation gas, through a fixed, bed hydrogenation catalyst, at a temperature of from 10 to 180°C, under a moderate pressure at which a portion of from 5 to 50% by weight of the hydrocarbon mixture is vaporized, thereby avoiding a high temperature increase of the reaction medium, the vaporized fraction is condensed and the resulting hydrocarbon mixture is passed with a hydrogenation gas through a second stage reaction zone, in the liquid phase, through a fixed bed hydrogenation catalyst, at a temperature of from 0 to 120°C and under a higher pressure than in the first stage, which pressure is sufficient for maintaining substantially all the reactants in the liquid phase during the hydrogenation.

CLASS 128-H

131329

#### GYNÆCOLOGICAL DEVICE, FOR INSERTION IN THE WOMAN'S WOMB

CHARIS, AKA CHARILAOS GEORGE MASSOURAS, OF 93, ILISSOU, ATHENES, GREECE.

Application No. 131329 filed May 12, 1971.

#### 22 Claims

Gynaecological device for insertion in the woman's womb characterized in that it includes a Y shaped flexible support means made of biologically inert elastic material the branches of which are each provided with a fan-like membrane extending in half the space separating the said two branches and coplanar with them the free edges

of said opposed membranes defining a radial split coaxial with the leg portion of the said branches.

CLASS 144 E 4

131391

#### A PROCESS FOR THE PREPARATION FORM "SPENT SHOREA ROBUSTA RESIN" OF A FRENCH POLISH FOR WOODEN FURNITURE WITHOUT USING ANY METHYLATED SPIRIT.

COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-1, INDIA.

Application No. 131391, filed May 18, 1971.

#### 2 Claims—No drawings

A process for the preparation of a French polish by dissolving a resin in an organic solvent characterised in that the resin consists of "spent *Shorea robusta* resin" obtained as a by-product during the preparation of Canada Balsam substitute from the crude natural resin of *Shorea robusta* Gaertn. f. (fam. Dipterocarpaceae) further characterised in that the dissolving is done by refluxing over a water-bath in a 1 : 1 mixture of commercial benzene and n-Hexane.

CLASS 90-K

131420

#### PROCESS FOR PREPARATION OF CLASS COMPOSITION USED IN THE MANUFACTURE OF WHITE-COLOURED GLASS CRYSTALLINE MATERIAL.

MOSKOVSKY ORDENA LENINA KHIMIKO-TEKHNOLOGICHESKY INSTITUT IMENI D.I. MENDELEEVA, OF MIUSSKAYA POLSCHAD, 9, MOSCOW, USSR.

Application No. 131420, filed May 19, 1971.

#### 2 Claims

Process for the preparation of glass material used in the manufacture of white-coloured glass-crystalline material which comprises melting together raw materials in a glass melting furnace at a temperature from about 1480°C to about 1490°C, degassing the melt, cooling the same to a formation temperature of from about 1350°C, to about 1360°C, forming the continuous band by rolling and passing the same through a tunnel lehr the raw materials being in such proportions as to produce a glass material having

SiO <sub>2</sub> — 48—60%	by weight
Al <sub>2</sub> O <sub>3</sub> — 5— 8%	"
CaO — 20—30%	"
MgO — 0.8—3.1%	"
MnO — 0.5—1.7%	"
Fe <sub>2</sub> O <sub>3</sub> — 0.1%—1%	"
TiO <sub>2</sub> — 0.2—0.5%	"
F <sub>2</sub> — 0.5—2%	"
K <sub>2</sub> O — 4—7%	" and
ZnS upto 1%	" .

CLASS 32F-2-b & 32F-1

131459

#### PROCESS FOR THE PRODUCTION OF SUBSTITUTED URETIDINE-2, 4-DIONES.

BADISCHE ANILIN- & SODA-FABRIK AKTIENGESELLSCHAFT, AT 6700 LUDWIGSHAFEN, FEDERAL REPUBLIC OF GERMANY.

Application No. 131459, filed May 22, 1971.

#### 1 Claim

A process for the production of a substituted uretidine 2, 4-dione of the formula shown in Fig. 1 of the accompanying drawings, where R denotes alkyl having 1 to 4 carbon atoms and R<sup>1</sup> denotes 2-benzothiazolyl or a radical of the formula shown in Fig. 2 of the drawings, where R<sup>2</sup> and R<sup>3</sup> are identical or different and each denotes hydrogen, halogen, lower alkyl, lower alkoxy,

lower thioalkyl, haloalkyl, mesyl, cyano, N, N-dimethylamido-sulfonyl, 4'-chlorophenoxy, and R<sup>4</sup> may also denote alkylcarbamoyloxy of the formula shown in Fig. 3 of the drawings, R<sup>1</sup> denoting hydrogen and R<sup>5</sup> denoting lower alkyl or linear or branched alkyl, alkenyl or alkynyl having a maximum of 9 carbon atoms and substituted by chloro, bromo, phenyl, cyclohexyl, lower alkoxy or alkylthio wherein hydrogen chloride eliminated from an allophanil chloride of the formula I shown in Fig. 4 of the drawings where R and R<sup>1</sup> have the above meanings by reacting with organic amine components and inorganic cases such as herein described.

CLASS 205(K), 136(F) 131546

#### TYRE MOULD

DUNLOP HOLDINGS LIMITED, OF DUNLOP HOUSE, RYDER STREET, ST. JAMES'S LONDON S W 1, ENGLAND.

Application No. 131546 filed May 31, 1971.

#### 20 Claims

A mould for forming the tread profiling of pneumatic tyres comprising two mould plates between which a pre-formed tyre is to be centrally located, said plates having heating channels or chambers the distance between said plates being variable, mould segments disposed between said plates, each segment being provided with a part of the negative tread profile on their radially inner surface and being radially movable independently of the mould plates, and heating means associated with said segments in which a heating medium enters said segments directly.

CLASS 24-B 131619

#### IMPROVEMENTS IN OR RELATING TO DISC BRAKES

GIRLING LIMITED, OF KINGS ROAD, TYSELEY, BIRMINGHAM 11, ENGLAND.

Application No. 131619 filed June 7, 1971.

Addition to No. 110741.

#### 8 Claims

A disc brake construction as claimed in claim 1 of our prior Indian Patent 110741 wherein the or each said disc comprises a plurality of separate segments assembled together with gaps between adjacent segments extending chordally of the disc.

CLASS 98E 131628

#### PYRO-PROCESSING UNIT FOR HEAT ACTIVATION OF CLAY MINERALS

NATION BUILDINGS ORGANISATION, MINISTRY OF HEALTH, NIRMAN BHAVAN, NEW DELHI, GOVERNMENT OF INDIA.

Application No. 131628, filed Jun. 7, 1971.

#### 15 Claims

Pyro-processing unit for heat activation of clay minerals in particular for heat activation of pozzolanic clays comprising a fluidised bed calciner column (1) which is heated by burning fuel oil from burner (9), a burning chamber (3) situated below the said fluidized bed column, on the stoping side of which are provided pre-combustion chambers (8) for mounting the said oil burner (9), a product outlet chamber (7) situated below the said burning chamber, a fine particle recovery section (4) situated at the top of said fluidised bed column and pneumatic conveyors (13, 14, 15) for feeding the solids to the top of the said calciner.

CLASS 56-D 131723

#### ENCLOSED TRANSPORT CONTAINER THE BRITISH OXYGEN COMPANY LIMITED OF HAMMERSMITH HOUSE, LONDON, W. 6, ENGLAND.

Application No. 131723, filed June 15, 1971.

Convention date June 24, 1970. (30577/70) U.K.

#### 30 Claims

An enclosed transport container fitted with a liquefied gas evaporator for supplying evaporated gas thereto, in which the evaporator has a shell constructed of gas-impermeable material, a layer of insulating material, an inlet for liquefied gas and a vapour outlet leading directly to the enclosed space, wherein the location and dimensions of the vapour outlet permit the escape of dense, non-turbulent evaporated gas.

CLASS 12-C 131801

#### HEAT TREATMENT OF STEELS

JOSEPH LUCAS (INDUSTRIES) LIMITED, OF GREAT KING STREET, BIRMINGHAM, ENGLAND.

Application No. 131801 filed June 19, 1971.

#### 9 Claims—No drawings

A method of heat treating a hypo-eutectoid steel having an upper critical temperature in excess of 805°C, the method comprising heating the steel to between 750°C and 805°C, that is between the upper and lower critical temperatures of the steel, and then cooling the steel at a predetermined rate such that there is produced a treated steel comprising fine, highly dispersed grains of iron carbide in a ferrite matrix.

CLASS 157-D<sub>3</sub> 131874

#### IMPROVEMENTS IN OR RELATING TO MOBILE MACHINE FOR DETERMINING DIFFERENT TRACK PARAMETERS

FRANZ PLASSER, JOHANNESGASSE 3, VIENNA 1, AUSTRIA.

Application No. 131874 filed June 24, 1971.

#### 22 Claims

A mobile machine for determining different parameters of a railway track such as versine, joint position, twist, gauge or the like, comprising feeler members displaceable relative to an undercarriage frame and relative to one another for detecting the particular position of the rail, a pick-up for converting the relative movements of the feeler members into proportional electrical measured quantities and an indicating and/or recording instrument, wherein the pick-up being formed by resistive datum instruments, secured to a member which can be resiliently deformed by the relative movements of the feeler members.

CLASS 157-D<sub>3</sub> 131875

#### IMPROVEMENTS IN OR RELATING TO MOBILE MACHINE FOR DETERMINING THE VERTICAL POSITION AND CONDITION OF A RAILWAY TRACK

FRANZ PLASSER, JOHANNESGASSE 3, VIENNA 1, AUSTRIA.

Application No. 131875 filed June 24, 1971.

#### 12 Claims

A mobile machine for determining the vertical position and condition of a railway track and more particularly for detecting vertical irregularities in a rail, for example at rail joints, comprising several vertically displaceable

feeler members such as tread wheels, wheel assemblies or the like, for detecting the particular position of the rail, and a pickup for converting the relative movements of these feeler members with respect to the undercarriage frame into proportional electrical measured quantities, the pickup being linked to an indicating and/or recording unit, wherein the pickup (11; 19, 20; 28) is arranged between two toggle levers (14, 21) with the same lever arm ratio which are mounted on the undercarriage frame (3) in such a way as to be pivotal vertically of the plane of the track, the arrangement being such that one lever arm of each toggle lever (14 or 21) is linked to the pickup (11; 19, 20; 28) whilst the second lever arm of one of the toggle levers (21) is connected to a main wheel axle (2') through a guide rod (23) and the second lever arm of the other toggle lever (14) is connected to one of the feeler members (9; 6''), for example to a pickup axle or to a measuring wheel assembly.

CLASS 157D<sub>3</sub>

131876

### IMPROVEMENTS IN OR RELATING TO MOBILE MACHINE FOR MEASURING THE TWIST OF A TRACK

FRANZ PLASSER, JOHANNESGASSE 3, VIENNA 1, AUSTRIA.

Application No. 131876, filed June 24, 1971.

#### 15 Claims

A mobile machine for measuring the twist of a track comprising at least two feeler members, such as tread wheels, wheel assemblies or the like, arranged at intervals behind one another on each rail for detecting the particular level of each rail, and a measuring arrangement linked to an indicating and/or recording unit for determining the relative vertical differences between the individual feeler members, wherein the measuring arrangement is in the form of a elastically deformable bar (19, 26) which is provided with resistance strain gauges (20) for converting the deformations into proportional electrical measured quantities and which is arranged between two feeler members (2', 6'; 9, 9') arranged at an interval one behind the other on both rails (1), being connected at one of its ends to one of these two feeler members (2', 6'; 9, 9').

CLASS 68-(D) &amp; 69-(3)

131893

### THREE PHASE ELECTRIC SWITCHING SYSTEM HAVING RECTIFIER SHUNTED CONTACTS

MERLIN GERIN, OF RUE HENRI TARZE, 38 GRENOBLE, FRANCE.

Application No. 131893, filed June 28, 1971.

#### 10 Claims

Semistatic polyphase circuit breaker having a plurality of poles, each pole comprising a pair of separable contacts shunted by a circuit consisting of a static rectifiers connected in series, at least one static rectifier of which, such as a thyristor, is adapted to be controlled in such a manner as to shunt the arc drawn between the said contacts during the alternation of the current corresponding to the direction of conduction of the said static rectifiers and for a period of time sufficient for the extinguishing of the arc characterized by the fact that the static rectifiers of at least one of the said poles are oriented in the direction opposite that of the other pole so as to reduce the maximum voltage applied to said static rectifiers in case of a defect.

CLASS 129-G, 27-L

131961

### IMPROVEMENTS RELATING TO MACHINE FOR AUTOMATICALLY AND CONTINUOUSLY MANUFACTURING REINFORCEMENTS

MAURICE DEBRY, OF 25-33, RUE DE LA PAIX, 94-VINCENNES, FRANCE.

Application No. 131961, filed July 2, 1971.

#### 8 Claims

A machine for the automatic manufacture, in a continuous manner, of reinforcements constituted by longitudinal members connected by a transverse member, the machine comprising a drum for storing the transverse member, a wire guide, the drum and the wire guide being mounted on a frame to rotate about the same axis, means for rotating the wire guide, means for drawing off the longitudinal members from a store, means for moving the longitudinal members parallel to said axis in the direction of the drum, these means including guide barrels, means for moving the longitudinal members parallel to said axis in the direction of the drum, these means including guide barrels, means for correlating the movement of the longitudinal members with the rotation of the drum and wire guide to produce a substantial helical binding of the transverse member about the longitudinal members and a cylindrical bearing integral with the frame and mounting the guide barrels coaxial to which are rotatably mounted the drum and the wire guide, the drum being mounted about the bearing.

CLASS 32-B, 56-F.

132024.

### PROCESS FOR SELECTIVELY HYDROGENATING PETROLEUM CUTS OF THE GASOLINE RANGE IN SEVERAL STEPS.

INSTITUT FRANCAIS DU PETROLE, DES CARBURANTS ET LUBRIFIANTS, OF 1 & 4, AVENUE DE BOIS-PREAU, 92 RUEIL-MALMAISON, FRANCE.

Application No. 132024, filed July 7, 1971.

#### 11 Claims—No drawings

A process for selectively hydrogenating a feedstock boiling in the gasoline range, containing aromatic hydrocarbons, olefins, diolefins and sulfur compounds, which comprises: (a) a first step of reacting said feedstock in the liquid phase with hydrogen in the presence of a hydrogenation catalyst comprising a metal from group VIII, (b) a second step of reacting the product from the first step, in gaseous phase, with hydrogen in the presence of a catalyst comprising molybdenum or tungsten or an oxide or sulfide thereof on a conventional carrier, said catalyst having a specific surface of from 20 to 90 m<sup>2</sup>/g. (c) a third step of reacting the product from the second step, in gaseous phase, with hydrogen in the presence of a catalyst comprising molybdenum or tungsten or an oxide or sulfide thereof on a conventional carrier said catalyst having a specific surface of from 120 to 500 m<sup>2</sup>/g.

CLASS 32-F-2(a), 60-X-2d.

132115.

### PROCESS FOR PREPARING NOVEL CEPHALEXIN SALTS.

ELI LILLY AND COMPANY, AT 740 SOUTH ALABAMA STREET, CITY OF INDIANAPOLIS, STATE OF INDIANA, U.S.A.

Application No. 132115, filed July 14, 1971.

#### 3 Claims

A process for preparing novel 7-[D-2'-phenyl-2'-amino-acetamidol]-desacetoxycephalosporanic acid salts of sulfonic acid wherein the sulfonic acid is selected from anthraquinone-1, 5-disulfonic acid, anthraquinone-2-sulfonic acid and 1-naphthol-5-sulfonic acid characterized by dissolving cephalixin in a dilute solution of a mineral acid, adding to the solution an alkali metal salt of sulfonic acid selected from anthraquinone-1, 5-disulfonic



acid, anthraquinone-2-sulfonic acid and 1-naphthol-5-sulfonic acid.

CLASS 62-D-1. 132227.

NOVEL PROCESS FOR DYEING PAPER.  
SANDOZ LTD., OF LICHTSTRASSE 35, BASLE,  
SWITZERLAND.

Application No. 132227, filed July 24, 1971.

#### 5 Claims

A process for dyeing paper, comprising applying to the paper in sheet form or prior to sheet formation, a dye of formula I shown in the accompanying drawings.

CLASS 32-A<sub>2</sub>. 132390.

METHOD OF PRODUCING REACTIVE ANTHRAQUINONE DYESTUFFS.

NIPPON KAYAKU CO., LTD., OF NEW KAIJO BLDG., 2-1, 1-CHOME, MARUNOUCHI, CHIYODAKU, TOKYO, JAPAN.

Application No. 132390 filed August 5, 1971.

#### 2 Claims

A process for the production of reactive anthraquinone dyestuffs having the general formula (1)  $AQ-(BZ-CH_2-NHCOCH_2-NCORX)_m$  (1)

R'

wherein AQ is an anthraquinone nucleus, BZ is a benzene nucleus having a replaceable hydrogen and combines through an N or O atom with an anthraquinone nucleus, R is a saturated or unsaturated aliphatic hydrocarbon residue having 1—3 carbon atoms, R' is a hydrogen atom or methyl group and X is a chlorine or bromine atom, the anthraquinone nucleus or benzene nucleus have 1 or 2 sulfonic acid groups, and m is 1 or 2, which comprises condensing an anthraquinone dyestuff which combines through an N or O atom with an aromatic nucleus having a replaceable hydrogen atom with a reactive substance of the general formula (2)  $Y-CH_2-NHCOCH_2-N-CORX$

R'

wherein Y is a halogen atom or a hydroxy group, R, R' and X are same as defined above, and, in case the product has no sulfonic acid or poor solubility, sulfonating the product in manner as herein defined.

CLASS 126-C & D. 132458.

AUTOMATIC PRINTED CIRCUIT CHECKER.

MALIAKAL PAUL GEORGE. M.P. GEORGE. EEE. DEPT., BIRLA INSTITUTE. OF TECHNOLOGY & SCIENCE, PILANI, RAJASTHAN STATE, INDIA.

Application No. 132458 filed August 10, 1971.

#### 6 Claims

An Automatic printed-circuit checker for rapid location and identification of defects in printed-circuits used in mass production of electronic and electrical appliances, comprising two identical multiprobes each consisting of a plurality of individual probes assembled vertically on a thick horizontal insulating sheet with holes in a matrix form, which hold the individual probes, that are electrically connected in a known order to a row of sockets provided on the instrument casing, which sockets are connected to the contact points on one deck of a two pole multiway stepping rotary switch, the spindle of which is coupled to a small direct current motor through reduction gears, and at each step of the said switch a pair of identically situated individual probes of the said multiprobes get connected through the two poles of said switch to the two inputs points of a balanced amplifier having an output meter with centre-zero, connected in series with the energising coil of a

micro-relay the contact of which is normally closed and is in series with the supply to the said direct current motor; and attached to the spindle of the stepping rotary switch is a pointer that moves over a numbered dial when the instrument is in operation, to identify the pair of individual probes which are connected to the input points of the balanced amplifier; and the two multiprobes are provided each with vertical guides on a stand where printed circuits are placed for comparison, and the different stages of the checker supplied with appropriate voltages derived from a built-in power pack.

CLASS 107-H. 132505.

#### FUEL INJECTORS.

BRICO ENGINEERING LIMITED, OF HOLBROOK LANE, COVENTRY, WARWICKSHIRE, ENGLAND.

Application No. 132505 filed August 16, 1971.

Convention date August 19, 1970 (40012/70) U.K.

#### 16 Claims

An electromagnetic fuel injector including a member movable from a first position, in which it closes an aperture in the injector, to a second position in which the aperture is open to allow a controlled flow of fuel from the injector, a magnetic circuit which moves the member from the first to the second position when magnetised, a winding which magnetises the magnetic circuit when fed with an electrical current, and in which at least a part of the magnetic circuit is magnetically saturated when the member is in the second position.

CLASS 130-F. 132563.

MOLTEN METAL TRANSFER APPARATUS.

THE BABCOCK & WILCOX COMPANY, AT 161 EAST 42ND STREET, NEW YORK, NEW YORK 10017, U.S.A.

Application No. 132563, filed Aug. 18, 1971.

#### 5 Claims

In a Sliding gate valve mechanism for controlling the flow of molten metal from a ladle thereof of the type including first and second ceramic refractory gate nozzle portions, both nozzle portions having a discharge aperture therethrough, and means for mounting the nozzle portions in slidable relationship with one another including a first metallic bracket embracing the first nozzle portions being slidable between a closed position in which the discharge apertures are laterally displaced from one another thereby preventing the flow of molten metal through the apertures and an open position in which the discharge apertures are in flow alignment thereby permitting the flow of molten metal through the apertures, the improvement comprising a preformed thermal insulating shape partially encapsulating the first nozzle portion and disposed between the first nozzle portion and the first metallic bracket, and adapted to position the first nozzle portion within the first metallic bracket and to inhibit the flow of heat between the first refractory nozzle portion and the first metallic bracket.

CLASS 32-A-1, 62-C-1, 144-D, 144-E-2. 132647.

PROCESS FOR PREPARATION OF WATER-INSOLUBLE MONOAZO DYESTUFFS.

FARBWERKE HOECHST AKTIENGESELLSCHAFT VORMALS MEISTER LUCIUS & BRUNING, OF 45, BRUNINGSTRASSE, FRANKFURT/MAIN, FEDERAL REPUBLIC OF GERMANY.

Application No. 132647 filed August 24, 1971.

#### 5 Claims

Process for the preparation of water-insoluble monoazo dyestuffs of the general formula 1 of the accom-

panying drawings, wherein  $R_1$  and  $R_2$  are alkyl I and X is halogen, which comprises coupling the diazonium compounds of amines of the general formula 2 wherein  $R_1$  and  $R_2$  have above given meanings with coupling components of the general formula 3 wherein X has above given meanings.

CLASS 32-F & 32F2b. 132664.

# PROCESS FOR THE PREPARATION OF NEW BIS - (TRIAZINYLAMINO) - STILBENESULPHONIC ACIDS.

SANDOZ LTD., OF LICHTSTRASSE 35, BASLE SWITZERLAND.

Application No. 132664 filed August 25, 1971.

## 5 Claims

A process for the production of bis-triazinylamino-stilbenesulphonic acids of the formula I shown in the accompanying drawings, wherein X stands for an amino group which may be substituted, Y for a radical of formula II shown in the drawing Z for  $\text{COOR}_1$ ,  $\text{CO}-$ ,  $+$ 1, or in particular  $-\text{CN}$  or a radical shown in Fig. 1 of the drawing,  $R_1$  for hydrogen, a lower alkyl or alkoxy radical or a halogen atom,  $R_2$  for hydrogen or a lower alkyl radical,  $R_3$  for hydrogen, a lower alkyl, hydroxyalkyl alkoxyalkyl hydroxyalkoxyalkyl radical, an alkylaminoalkyl radical which may be substituted by hydroxyl or alkoxy groups, a cycloalkyl radical which may be substituted by lower alkyl groups, an aralkyl or aryloxyalkyl radical, a phenyl radical which may be substituted by lower alkyl or alkoxy groups or by halogen, or a radical of formula III shown in the drawings,  $R_4$  for a lower alkyl radical which may be substituted by hydroxyl, alkoxy, phenyl or phenoxy,  $R_5$  and  $R_6$ , independently of each other, each stands for a hydrogen atom or a lower alkyl or hydroxyalkyl radical, or  $R_5$  and  $R_6$  together with the nitrogen atom for a heterocyclic radical, Me for hydrogen, an alkali metal or an alkaline-earth metal, an ammonium group which may be substituted or aluminium, m for a whole number from 1 to 5, and n for 1 or 2 which comprises reacting 2 mols of a cyanuric halide in any desired order with

- 1 mol or 4, 4'-diaminostilbene-2,2'-disulphonic acid or of a salt of this acid,
- 1 mol of an aminobenzenedisulphonic acid which may be substituted or of a salt of this acid,
- 1 mol of ammonia or of a primary or secondary amine, and
- 2 mols of an amine of formula IV shown in the drawings or of a mixture of amines of formula (IV) wherein  $R_7$ ,  $R_8$ , Z and n have the meanings given above.

CLASS 29-A, 20-B. 132686.

# A GRAPHIC ANSWER INPUT DEVICE FOR A TEACHING MACHINE FOR GRAPHIC TECHNIQUE.

FRUNZENSKY POLITEKHNICHESKY INSTITUT MINISTERSTVA NARODNOGO OBRAZOVANIA KIRGIZSKOI SSR, OF FRUNZE, PROSPEKT MIRA, 66, USSR.

Application No. 132686 filed August 26, 1971.

## 2 Claims

A graphic answer input device for a teaching machine for graphic technique of a sandwich structure comprising four elements superimposed on one another namely, a contact bearing insulated board with a plurality of spaced contacts electrically connected to the logical unit of the machine; a perforated insulated card having a plurality of spaced holes corresponding to number of contracts provided on said board; a current-carrying flexible foil and a problem blank on which the student is to plot the required drawing, the centre of said holes being coaxial with the butt ends of the contacts and ensuring that

the current-carrying plate should touch respective contacts on the contact-bearing board in case each successive line on the problem blank is drawn correctly while the size of these holes determines the accuracy of the graphic answer input, and the contacts on said contact-bearing board having the shape of polyhedrons which allows the number of holes in the perforated card to be made equal to that of the contacts on the contact-bearing board.

CLASS 176-E.

133196.

# VAPOR GENERATING APPARATUS.

COMBUSTION ENGINEERING, INC., OF 1000 PROSPECT HILL ROAD, WINDSOR, STATE OF CONNECTICUT, UNITED STATES OF AMERICA.

Application No. 133196 filed October 11, 1971.

## 7 Claims

Vapor generating apparatus including an elongated shell defining a substantially closed pressure vessel containing a vapor generating chamber; a plurality of heat exchange tubes disposed in said vapour generating chamber, said tubes being arranged in a bundle the outer periphery of which is concentrically spaced from the wall of said shell; means for circulating heating fluid through said tubes; and means for circulating vaporizable fluid through said vapor generating chamber in heat exchange relation with said tubes comprising, a feedwater inter nozzle; conduit means defining a downflow passage in the space between said tube bundle and said shell wall, the outermost surface of said conduit means being spaced from the wall of said shell to place the wall in open fluid communication with said vapor generation chamber; and means for passing feedwater from said inlet nozzle to said conduit means.

CLASS 60-C.

133334.

# HELMET WITH VENTILATION DEVICE.

GAVE CURSETJEE NO. 1. MUSEUM ROAD, BANGALORE-1, MYSORE STATE, INDIA.

Application No. 133334 filed October 23, 1971.

## 6 Claims

Helmet with ventilation device comprising the scoop and shutter arrangement for fresh air circulation through the scoop or hole all round the head.

CLASS 33-C.

133989.

# IMPROVEMENTS IN OR RELATING TO MOULD COATING COMPOSITIONS.

THE TATA IRON & STEEL COMPANY LIMITED, LOCATED AT JAMSHEDPUR, STATE OF BIHAR, INDIA.

Application No. 133989 filed December 17, 1971.

Addition to No. 127139.

## 1 Claim—No drawings

Improvement in or modification of the invention disclosed and claimed in Patent Application No. 127139 characterized by that the composition consists of

- 10 to 20% by weight of feldspar,
- 3 to 10% by weight of grease, and
- the remainder as naphtha based oil.

CLASS 155-D, 90-C & 207.

134178.

# IMPROVED LAMINATES.

THE B. F. GOODRICH COMPANY, OF 277, PARK AVENUE, NEW YORK, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Application No. 134178 filed January 4, 1972.

## 23 Claims—No Drawings

A lamisiate having improved resistance to delamination comprising at least two layers bonded together with an

aqueous adhesive polymer latex as hereinbefore described containing from about 0.01 to about 25% by weight carboxyl functionality based on the total polymer composition, said adhesive latex being present as raised, spaced deposits having an average diameter of about 0.0005 inch to about 0.05 inch and a viscosity of at least 10,000 centipoise.

CLASS 32-B, 56-F & 40-A-2. 134681.

PROCEDURE AND REACTOR FOR DESTRUCTIVE HYDROGENATION OF LUBE OILS.

INSTITUTUL DE CERCETARE SI PROIECTARE TEHNOLOGICA PENTRU PRELUCRAREA TITEIULUI, PLOIESTI STRASSE, DILIGENTEI NR. 18, RUMANIA.

Application No. 134681 filed February 19, 1972.

#### 5 Claims

A method for the destructive hydrogenation of lube oils, characterized in that in order to obtain relatively higher yields of products along with a substantial increase of the viscosity index, there are employed two successive and distinctive layers of specific or different catalysts, laid in the same reactor, in even or uneven amounts, of which the first catalyst, according to feeding order, has chiefly a hydrogenation function, and the second one has the main function by hydrocracking-isomerization, functions which are carried out depending on the active element composition of the catalysts and/or the acidity of their support, taking over of the reaction heat being ensured by controlled injections in the reactor of hydrogen and/or hydrocarbon fractions.

CLASS 126 (D) & (C). 134931.

ELECTRIC WIRE AND A MEASURING INSTRUMENT SENSITIVE ELEMENT MADE OF THIS WIRE.

IZYASLAV BORISOVICH PESHKOV, OF PROSPEKT MRA, 184, KORPUS 2, KV. 146, MOSCOW, USSR AND VIKTOR TIMOFEEVICH PIVNENKO, OF PERVOMAISKAYA ULITSA, 57, KV. 1, MOSCOW, USSR.

Application No. 134931 filed March 14, 1972.

#### 12 Claims

An electric wire having a current-carrying core of a metal with paramagnetic susceptibility which is provided, throughout its length, with at least one layer of a material with diamagnetic susceptibility disposed in such a way relative to said current-carrying core that its diamagnetic susceptibility compensates for the paramagnetic susceptibility of the current-carrying core.

CLASS 97-H. 135183

AN ELECTRIC FURNACE IN COMBINATION WITH HEAT CONTROL DEVICE.

THE FERTILIZER CORPORATION OF INDIA LIMITED, SINDRI, DISTRICT-DHANBAD, BIHAR.

Application No. 135183 filed April 6, 1972

#### 8 Claims

An electric furnace in combination with heat control device comprises of a refractory tube of good thermal conductivity with a number of uniform circular grooves over its outer surface for providing heating elements, the said tube being encapsulated in insulating materials provided in the outer metal casing co-axially, both ends of the said tube being closed by ceramic plugs, in one of the said ceramic plugs exit for the gas being provided and in the other said ceramic plug a thermocouple and an inlet for the gas being provided, the said thermocouple being connected to a temperature indicator and the electric supply to the said heating elements being regulated

and controlled by a heat control device comprising of a voltage regulator, a relay, an annuler and a magnetic contactor with a switch.

CLASS 83-B-3. 135239.

IMPROVEMENTS IN OR RELATING TO FOOD WARMER DEVICE AND THE LIKE. BALARAM DWARKADAS NAGPAL, 306, LOTUS HOUSE, 33A,

NEW MARINE LINES BOMBAY-20, MAHARASHTRA, INDIA.

Application No. 135239 filed April 11, 1972.

#### 13 Claims

A food warmer device is characterised in that it consists of a stand carrying a pair of support members, the lower support member carrying a wick stove, gas stove, spirit stove or an electrically operated thermostatically controlled stove and the upper support member carries a pair of saucepans, one of which carries an extension handle and a top lid and is adapted to carry the food to be warmed and the other without handle is adapted to carry water and remains in direct contact with the heat from said stove proper and characterised further in that the food in said first saucepan is heated and kept warm by the hot water in the said second saucepan for periods varying from  $\frac{1}{2}$  hour to 48 hours or more as desired.

CLASS 32-E, 32-F-3-a, 32F-3-d, & 40 B. 135370.

PRODUCTION OF ALDEHYDES OR KETONES.

SNAM PROGETTI S.p.A., OF CORSO VENEZIA, 16, MILANO, ITALY.

Application No. 121/Cal/73 filed January 15, 1973.

Division of Application No. 131119, dated 26th April 1971.

#### 12 Claims—No drawings

A process for the production of an aldehyde olefin and oxygen or an oxygen-containing mixture of gases, over a catalyst composition comprising oxides and/or oxy-compounds of uranium and tellurium.

CLASS 60×2d 32F2b. 135371

PROCESS FOR PREPARING ALKYL-7-0-ALKYL-1-THIO- $\alpha$ -LINCOSAMINIDES.

THE UPJOHN COMPANY, OF 301 HENRIETTA STREET, KALAMAZOO, MICHIGAN, UNITED STATES OF AMERICA.

Application No. 241/72 filed May 18, 1972

Division of Application No. 128598 dated September 25, 1970.

#### 1 Claim

A process for preparing compounds of the formula I shown in the accompanying drawings, wherein R and Alkyl are alkyl of not more than 4 carbon atoms which process comprises opening the oxazole group of a compound of the formula II shown in the drawings, wherein Ac is a protective carboxacyl group and Alkyl is as defined above, by uncatalysed hydrolysis by a method as herein described to form a compound of the formula III shown in the drawings, wherein alkyl and Ac are as defined above, alkylating the compound of formula III by a method as herein described to form a compound of formula IV shown in the drawings, wherein R, alkyl and are as defined above and thereafter

removing the  $\text{CH}_3\text{C}$  group by hydrazinolysis and the 3, 4 0-isopropylidene group by acid hydrolysis and, if

desired, acylating the product by a known method as herein described with a carboxylic acid of the formula shown in Fig. 1 of the drawings, wherein  $R_1$  is hydrogen, methyl or ethyl and  $R_2$  is lower alkyl or lower cycloalkyl to yield the corresponding N-acyl derivative of the formula shown in Fig. 2 of the drawings, wherein  $R_1$ ,  $R_2$  and alkyl are as defined above.

#### Opposition Proceedings

(1)

Application for patent No. 99824 made by Koratron Company Inc. in respect of which an opposition was entered by The Bangalore Woollen, Cotton & Silk Co. Ltd., as notified in Part III, Section 2 of the Gazette of India, dated the 29th July 1967, has been treated as withdrawn.

(2)

The application for patent No. 105713 made by Jiban Gopal Ghosal in respect of which an opposition was entered by Orissa Cement Limited has been refused.

(3)

The opposition entered by Orissa Cement Limited to the grant of a patent on application No. 121666 made by Shyam Sundar Ghose as notified in Part III, Section 2 of the Gazette of India dated the 5th February 1972 has been partly allowed. A patent will be sealed on the application subject to amendment of the specification.

(4)

The opposition entered by Central Industrial Alliance Private Ltd. to the grant of a patent on application No. 128931 made by Harbans Lal Malhotra & Sons Private Ltd. as notified in Part III, Section 2 of the Gazette of India, dated the 17th February 1973 has been treated as withdrawn.

#### Patents Sealed

125917 125920 125921 125922 126170 126353 126374  
126421 126523 126543 126587 126631 126672 126727  
126778 127756 127822 127856 127964 128031 128429  
128904 129196 129303 129519 129715 129787 130004  
130246 130322 130693 130796 131029 131069 132070  
132179 132972.

#### Amendment Proceedings Under Section 57

The amendments proposed by Farbenfabriken Bayer A.G. in respect of Patent application No. 105713, as notified in Part III, Section 2 of the Gazette of India dated the 10th February, 1973 have been allowed.

#### Registration of Assignments, Licences, etc.

(1)

Assignments, licences or other transactions affecting the interests of the original patentees have been registered in the following cases. The number of each case is followed by the names of the parties claiming interests :—

83044 —Chandrakant Somabhai Patel.  
84247

102597 —Tractel Tirfor India Private Ltd.

Assignments, licences or other transactions affecting the interests of the original patentees have been registered in the following cases. The number of each case is followed by the names of the parties claiming interests :—

(2)

112211—Council of Scientific and Industrial Research.

66874

68333

90547

96923

102834

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M/s. Dynamit Nobel Aktiengesellschaft.

104083

104184

104816

106072

110005

#### Patents deemed to be endorsed with the words "Licences of Right"

The following patents are deemed to have been endorsed with the words "Licences of right" under Section 87 of the Patents Act, 1970. The dates shown in the crescent brackets are the dates of the patents.

*No. Title of the invention*

101829 (6-10-65) Water soluble phthalocyanine dyestuffs, their manufacture and use.

101830 (6-10-65) Reactive anthraquinone dyestuffs, their manufacture and use.

101831 (6-10-65) New monoazo dyestuffs, their manufacture and use.

101840 (6-10-65) A process for preparing moulding compositions.

101856 (6-10-65) Preparation of hydroxylamine salt solution.

101870 (6-10-65) Process for rendering compounds of high molecular weight resistant to electrostatic charge, anti-static compositions and shaped articles obtained therefrom.

101890 (7-10-65) Process for the manufacture of azo dyestuffs.

101909 (7-10-65) Process for rendering organic compounds of high molecular weight resistant to electrostatic charge and antistatic compositions containing such compounds.

101926 (8-10-65) Improvements in relating to the manufacture of benzoyl chloride from benzotrichloride.

101928 (8-10-65) Electrolytic recovery of tin metal from the acid detinning bath.

101933 (8-10-65) Method & apparatus for making carbon black.

101935 (8-10-65) A process of reducing iron ore pellets.

101944 (8-10-65) Process for extracting aromatic hydrocarbons from hydrocarbon mixtures containing same.

101945 (4-2-64) Production of compositions containing polymeric N-vinyl imidazolines.

101948 (8-10-65) Substituted carbamoylthio derivatives, process for their manufacture and pesticidal compositions containing the same.

101975 (11-10-65) Process for preparing glycidol and glycerine.

101990 (12-10-65) Process for the preparation of unsaturated organosilicon compounds.

No.	Title of the invention	No.	Title of the invention
102021 (13-10-65)	Process for purifying salt-impo- verished brines in alkali-chloride electrolysis.	102361 (211-65)	The preparation of $\omega$ -laurinolactam.
102045 (13-10-65)	Modified myrobalan extracts and a process for their production.	102367 (3-11-65)	Fluorene-9-carboxylic acid derivatives, process for their preparation and plant mor- phology regulating agents containing the same.
102060 (14-10-65)	A method for the preparation of starch.	102386 (6-11-64)	Process for the manufacture of mois- ture-curing polyisocyanate reaction products and metal objects coated therewith.
102061 (14-10-65)	Improvements in or relating to the preparation of starch having improved ad- sorption capacity for amylase.	102404 (6-11-65)	Water-soluble azo dyestuffs, processes for their manufacture and materials dyed or printed therewith.
102062 (14-10-65)	Improvements in or relating to the simultaneous purification and clarification of enzyme solutions obtained from microbial cultures.	102424 (8-11-65)	Process for the conversion of hydro- carbons.
102064 (14-10-65)	Improvements in or relating to the stabilizing enzyme solutions.	102428 (8-11-65)	Process for preparing mixed oxide catalysts.
102065 (14-10-65)	Method for preventing denaturation of bacterial protease.	102437 (9-11-65)	Process for refining pig iron.
102067 (14-10-65)	Improvements in or relating to en- zyme powders and to methods of preparing the same.	102438 (9-11-65)	Process for producing a catalyst for oxidation of methanol to formaldehyde.
102068 (14-10-65)	Improvements in or relating to the treatment of rice for improving its quality.	102446 (9-11-65)	Production of epoxide and styrene.
102069 (14-10-65)	Concentration and purification of glucose oxidase.	102453 (10-11-65)	Process for preparing cyclohexane.
102070 (14-10-65)	Improvements in or relating to food products obtained by brewing.	102458 (10-11-65)	Improvements in or relating to the production of sweetening agent e.g. starch sugar syrup, starting from starch.
102071 (14-10-65)	A method for concentrating fungal catalase solutions.	102459 (10-11-65)	Improvements in or relating to the production of proteinaceous sauce.
102096 (15-10-65)	Process for drying gases containing water-vapor and acid-forming constituents.	102460 (10-11-65)	Method for the preparation of gluco- amylase.
102097 (15-10-65)	Process for the improvement of the quality of a petroleum lubricating oil.	102461 (10-11-65)	Improvements in or relating to the preparation of gluco-amylase.
102098 (15-10-65)	Improvement in or relating to a process for the hydrotreating of a high-visco- sity, petroleum lubricating oil.	102462 (10-11-65)	A method for producing bacterial amylase and protease.
102108 (16-10-65)	Process for polymerizing a polyme- rizable liquid comprising a vinylaryl com- pound.	102464 (11-11-65)	Process for making heat-stable hy- droxyl-containing vinyl polymers.
102117 (18-10-65)	Process for the manufacture of opti- cal brighteners.	102465 (11-11-65)	Process for producing tubular food wafers.
102134 (19-10-65)	Water-insoluble monoazo dyestuffs process for their manufacture and materials dyed or printed therewith.	102470 (11-11-65)	Styrene polymers containing behenic acid and method of making the same.
102137 (6-11-64)	Process for preparing graft polymers.	102471 (11-11-65)	A process for the preparation of aldehydes and/or alcohols.
102187 (21-10-65)	Improvements in and relating to the preparation of polymer foams.	102483 (12-11-65)	A method for recovering metallic values in an agglomerated form from waste metallic fines particularly zinc and aluminium fines.
102192 (22-10-65)	Separation of acidic gas constituents from gaseous mixtures containing the same.	102495 (12-11-65)	Process and composition for control of lump formation in ammonium sulphate fertilizer.
102197 (22-10-65)	Colloidal suspensions of silsesquiox- anes and a process for making same.	102511 (15-11-65)	Process and apparatus for heatings saline solutions.
102198 (14-10-65)	Process for preparing olefinically un- saturated aldehydes and nitriles.	102514 (15-11-65)	Pesticidal preparations containing aromatic phosphoric or phosphonic acid esters.
102220 (25-10-65)	Process for the preparation of aque- ous latex emulsion.	102517 (15-11-65)	Tea extract and process for its pre- paration.
102231 (26-10-65)	Production of 2, 3-dimethylbutane.	102523 (15-11-65)	Improvements in or relating to the concentration of fungal saccharifying enzyme solutions.
102249 (27-10-65)	Water-soluble mono and disazo dyestuffs and process for preparing them.	102526 (16-11-65)	Process and apparatus for producing carbon black of adjusted modulus.
102332 (1-11-65)	Method and apparatus for producing steam.	102540 (16-11-65)	Process for the manufacture of trialkyl aluminium compounds.
102335 (2-11-64)	Agricultural fungicidal compositions.	102546 (17-11-64)	Cyclic process for the production of hydrogen peroxide.
102351 (2-11-65)	Process and apparatus for the conti- nuous solution polymerization.	102608 (22-11-65)	Process for preparing a blue acid anthraquinone dyestuff.

102609 (22-11-65) A water-soluble yellow monoazo-dyestuff and process for preparing it.	72272 72349 72350 72364 72404 76966 77005 77147
102632 (22-11-65) Process for the production of zeolites.	77173 77292 77302 77777 77778 80611 82315 82597
102643 (23-11-65) Method for preparing expansible thermoplastic polymer particles containing a volatile fluid foaming agent.	82647 82701 82772 82798 82871 82950 82957 82975
102652 (23-11-65) Process for hydrogenation and recovery of hydrogen therefrom.	83046 83290 86424 87461 87920 87980 88059 88073
102661 (24-11-65) Process for the preparation of macromolecular formaldehyde polymers and shaped products made therefrom.	88079 88106 88142 88144 88282 88448 88613 88614
102677 (25-11-65) Improvements in or relating to the production of silver powder suitable for making conducting links.	88616 88867 93903 93905 93921 93951 94062 94067
102681 (25-11-65) A method of making co-polymers.	94177 94507 94191 94303 94369 94442 94516 94618
102695 (2-12-64) Process for the production of oil-modified alkyd resins and tinting compositions containing the same.	94715 94722 94748 95806 96054 99428 99648 99685
102699 (26-11-65) Process of preparing oxyomegasulfohydrocarbon-di-yl coumarin compounds and electroplating of nickel with a solution containing said coumarin compounds.	99703 99710 99799 99845 99865 99938 99978 99979
102719 (29-11-65) A process for making rubbery polymer of conjugated dienes.	99982 100050 100090 100117 100211 100224 100420
102735 (29-11-65) Ketones and process for the manufacture thereof.	100421 100422 100514 101569 102287 105159 105249
102753 (29-9-65) Apparatus and method for the continuous extraction of sugar from bagasse.	105319 105342 105361 105387 105435 105582 105649
102757 (30-11-65) Process for the polymerization of unsymmetrical conjugated diolefinic hydrocarbons.	105721 105746 105798 105799 105893 105972 105983
102769 (30-11-65) New disperse dyestuffs of the anthraquinone series, process for their manufacture and materials dyed or printed therewith.	106294 106383 106417 106421 107046 108071 109748
102783 (30-11-65) Process for the production of moulding composition.	109858 110085 110471 110514 110750 110751 110766
102792 (2-12-64) Process and apparatus for the purification of a crystallisable substance.	110781 110783 110950 110951 110952 110979 110991
102795 (1-12-65) Herbicidal compositions containing new bromopyridazone derivatives.	111035 111043 111044 111084 111092 111127 111180
102820 (24-5-65) Method of preparing 1, 2-dichloroethane.	111181 111182 111192 111258 111329 111591 111738
102821 (24-5-65) Method of preparing 1, 2-dichloroethane.	112494 114161 115047 115048 115734 115838 115866
102822 (24-5-65) Method of preparing 1, 2-dichloroethane and catalysts therefor.	115941 116019 116020 116094 116180 116181 116199
102823 (24-5-65) Method of preparing 1, 2-dichloroethane.	116208 116209 116210 116307 116322 116332 116334
102845 (9-9-65) Process for the preparation of carbamates.	116335 116336 116347 116351 116353 116401 116405
102851 (6-12-65) Metal-containing disazo-dyestuffs and process for preparing them.	116435 116485 116487 116536 116615 116686 116735
102852 (6-12-65) A process of removing SO <sub>2</sub> from an SO <sub>2</sub> -containing gas flow and apparatus therefor.	116736 116764 116792 116929 117250 117606 121323
	121364 121415 121448 121451 121453 121463 121464
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	122779 123129 123130 123132 123133 123351 123361
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**Restoration Proceedings**

Notice is hereby given that an application for restoration of Patent No. 80771 dated the 17th February, 1961 made by Parkinson Cowan GWB Limited on the 17th November, 1972 and notified in the Gazette of India, Part III, Section 2 dated the 27th January, 1973 has been allowed and the said patent restored.

**Registration of Designs**

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of the design included in the entry.

Class 1. No. 140561. Hazi Azimullah, Zia Ullah and Khalil Ullah Balai Qila, P.O. Aligarh (U.P.) Nationality—all Indian Nationals, "Lock", January 12, 1973

Class 1. No. 140629. Alibhai Rajbhai & Sons (an Indian Partnership Firm), 157, Mutton Street, Bombay-3, Maharashtra State, "Hydraulic trolley jack", January 27, 1973.

Class 3. No. 140577. Caprihans (India) Private Limited, a company existing under the Companies Act, 1956, being an Indian Company, having its registered office at Shiv Sagar Estate, Block D, Dr. Annie Besant Road, Worli, Bombay-18, State of Maharashtra, India, "Decorative laminated plastic sheets", January 17, 1973.

Class 3. No. 140594. Bulbul Nanlal Shah, an Indian National, of 13, Lake Avenue, Calcutta-26, West Bengal, India, "Speaker", January 20, 1973.

Class 3. No. 140662. Panchmal Industrial Corporation (an Indian Partnership Firm) 3801/140, Pantanagar, Ghatkopar, Bombay-75, Maharashtra State, India, "Plastic toy", February 9, 1973.

Class 3. No. 140699. Rajnal Plastic Industries (An Indian Partnership Firm), 303, Neelkanth, 98 Marine Drive, Bombay-2 (Maharashtra), "Table lamp", February 26, 1973.

**Copyright Extended for a Second Period of Five Years**

Design No. 132163 Class—1.

Design Nos. 133609, 133517 to 133519, 133693 Class—3.

Design Nos. 133845 to 133850 Class—11.

S. VEDARAMAN

Controller General of Patents,  
 Designs and Trade Marks.

